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Sunnyvale, CA 94085 (US). CHEN, Rui-Hong [US/US]; 1031 Flying Fish Street, Foster City, CA 94404 (US). ASUNDI, Vinod [US/US]; 709 Foster City Boulevard, Foster City, CA 94404 (US). CAO, Yicheng [CN/US]; 260 North Mathilda Avenue, Sunnyvale, CA 95086 (US). DRMANAC, Radoje, A. [YU/US]; 850 East Greenwich Place, Palo Alto, CA 94303 (US). ZHANG, Jie [CN/US]; 20800 Homestead Road #38B, Cupertino, CA 95014 (US). WERHMAN, Tom [US/US]; 300 Pasteur Drive, Edwards, R314, Stanford University Medical Center, Stanford, CA 94035 (US).

(54) Title: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES

(57) Abstract:

7/9/01

GenCore version 5.1.4
...ht (c) 1993 - 2003 Compugen Ltd.

...h, using sw model.

...7, 2003, 07:56:04 ; Search time 37 Seconds
(without alignments)
408.115 Million cell updates/sec

21492-2

...GVAGCLWSLCWSL......N.AAVLNPQNVTSLLGCTH 391

... Gapext 0.5

...gs. 133250520 residues

sfing chosen parameters: 908470

30000000

Match 58%
Match 100%
first 45 summaries

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1_1010024:*
2_..[ ..lata,genese..].............H...-mbl.AA1980.LAI.*
2_..[ ..lata,genese..].............H...-mbl.AA1981.LAI.*
2_..[ ..lata,genese..].............H...-mbl.AA1982.LAI.*
2_..[ ..lata,genese..].............H...-mbl.AA1983.LAT.*
2_..[ ..lata,genese..].............H...-mbl.AA1984.LAI.*
2_..[ ..lata,genese..].............H...-mbl.AA1985.DAT.*
2_..[ ..lata,genese..].............H...-mbl.AA1986.DAT.*
2_..[ ..lata,genese..].............H...-mbl.AA1987.LAI.*
2_..[ ..lata,genese..].............H...-mbl.AA1988.DAT.*
S2_.[.data,genese..].............H...-embl/AA1989.DAT.*
S2_.[.data,genese..].............H...-embl/AA1990.LAI.*
S2_.[.data/genese..].............H...-embl/AA1991.DAT.*
S2/g/data,genese,.genese..].......-embl/AA1992.DAT.*
S2/g/data,genese..].............H...-embl/AA1993.DAT.*
S2/g/data,genese..].............H...-embl/AA1994.LAI.*
S2/g/data,genese..].............H...-embl/AA1995.LAI.*
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S2/g/data,genese..].............H...-embl/AA1997.DAT.*
S2/g/data,genese..].............H...-embl/AA1998.IA.*
S2/g/data,genese..].............H...-mbl/AA1999.DAT.*
S2/g/data,genese..].............H...-mbl/AA2000.CAT.*
S2/g/data,genese..].............H...-mbl/AA2001.LAI.*
S2/g/data,genese..].............H...-mbl/AA2002.CAT.*
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...mber of results predict... by chance to have a
...r equal to the score of the result being printed.
...nalysis of the total score distribution.

SUMMARIES

rth.	IB	ID			Description
162	22	AAM23933			Human EST encoded
83	21	AAG00344			Human secreted pro
87	23	ABP31577			Human glycoprotein
587	21	AAY90502			Murine transmembra
587	21	AAY88405			Mouse MT4-MMP (2)
470	22	AAE10419			Human matrix metal
470	22	AAB84614			Amino acid sequenc
470	22	AAB74595			Human macrophage m
470	22	AAB49982			Human macrophage m
470	23	AAU91061			Human head and nec

#					ID		Description
11	202.5	9.3	473	21	AAH43772		Human cancer assoc
12	199	9.1	519	22	AAE10426		Human matrix metal
13	199	9.1	519	22	AAR84619		Amino acid sequenc
14	199	9.1	605	21	AAY90503		Human transmembran
15	199	9.1	606	21	AAY88404		Human MT4-MMP (2)
16	196	9.0	464	19	AAW52135		Rabbit matrix meta
17	195.5	8.9	477	23	AAU91062		Human head and nec
18	189.5	8.7	476	22	AAE10421		Human matrix metal
19	189.5	8.7	476	22	AAB84612		Amino acid sequenc
20	183.5	8.4	444	22	AAG65357		Human MMP-8alt pol
21	183.5	8.4	457	22	AAE10416		Human matrix metal
22	183.5	8.4	467	22	AAB84610		Amino acid sequenc
23	183.5	8.4	467	22	AAG65358		Human neutrophil c
24	181.5	8.3	469	22	AAE10415		Human matrix metal
25	181.5	8.3	469	22	AAB84606		Amino acid sequenc
26	191.5	8.3	492	13	AAR24863		Sequence of pre-pr
27	181.5	8.3	496	22	AAP75509		Human colon cancer
28	180.5	8.3	457	10	AAP93628		Sequence of human
29	180.5	8.3	469	8	AAP79611		Sequence encoded b
30	179.5	8.2	479	23	ABP41861		Human ovarian anti
31	179.5	8.2	488	13	AAR24862		Sequence of Pre-pr
32	179.5	8.2	488	22	AAE10422		Human matrix metal
33	179.5	8.2	488	23	AAB84613		Amino acid sequenc
34	179.5	8.2	488	23	ABH90737		Human Tumour Endot
35	177	8.1	460	10	AAP93629		Sequence of human
36	177	8.1	477	20	AAY21993		Human matrix metal
37	177	8.1	477	22	AAY21994		Human matrix metal
38	177	8.1	477	22	AAO20482		Prostromelysin pro
39	177	8.1	477	22	AAE10420		Human matrix metal
40	177	8.1	477	22	AAB84608		Amino acid sequenc
41	177	8.1	471	20	ABW94712		Human MMP3 protein
42	175	8.1	471	20	AAY29419		Human matrix metal
43	175	8.1	471	22	AAE10417		Human matrix metal
44	176	8.1	471	22	AAE10428		Human matrix metal
45	175	8.1	471	22	AAB84615		Amino acid sequenc

ALIGNMENTS

RESULT 1
AAM23933
ID   AAM23933 standard; Protein, 462 AA.
XX
AC   AAM23933;
XX
..   1..-...-2001 (first entry)
XX
..   Human EST encoded protein Seq ID NO: 1458.
XX
FH
KW   Human, sheep, pig, cow, goat, fly, yeast, hamster, rat, dog, horse;
KW   tomato, monkey, dog, sea urchin, expressed sequence tag; ESTs;
KW   diagnostics, forensic test, gene mapping, genetic linkage;
KW   biodiversity; gene therapy; nutrition.
XX
OS   Homo sapiens.
XX
PN   WO200154477-A2.
XX
PD   02-AUG-2001.
XX
PF   25-JAN-2001; 2001WO-US02687.
XX
PR   25-JAN-2000; 2000US-9491464.
PR   17-JUL-2000; 2000US-0617746.
PR   03-AUG-2000; 2000US-0631451.
PF   25-SEP-2000; 2000US-0663870.
XX
PA   (HYSE-) HYSEQ INC.
XX
PI   Tang YT; Liu C; Zhou P; Qian XB; Wang S; Chen P; Asundi V;
FI   Cao Y; Drmanac RA; Zhang J; Werbman T;
XX

PD   06-SEP-2000.
XX
FF   21-FEB-2000; 2000EP-0200610.
XX
FR   26-FEB-1999; 99US-0122487.
XX
PA   (GEST) GENSET.
XX
PI   Dumas Milne Edwards J; Duclert A; Giordano J;
XX
DR   WPI: 2000-500381/45.
DR   N-PSDB: AAC00310.
XX
PT   New nucleic acid that is a 5' expressed sequence tag (5' EST) for
PT   obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
PT   diagnostic, forensic, gene therapy and chromosome mapping procedures.
XX
PS   Claim 13: SEQ ID 4385; 71pp + CD-ROM: English.
XX
CC   The present sequence is a polypeptide encoded by one of a large number
CC   of 5' ESTs derived from mRNAs encoding secreted proteins. The 5' ESTs
CC   were prepared from total human RNAs or polyA+ RNAs derived from 10
CC   different tissues. EST sequences usually correspond mainly to the 3'
CC   untranslated region (UTR) of the mRNA because they are often obtained
CC   from oligo-dT primed cDNA libraries. Such ESTs are not well suited for
CC   isolating cDNA sequences derived from the 5' ends of mRNAs, and even in
CC   those cases where longer cDNA sequences have been obtained, the full 5'
CC   UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5'
CC   ends and can therefore be used to obtain full length cDNAs and genomic
CC   DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and
CC   chromosome mapping procedures. They are used to obtain upstream
CC   regulatory sequences and to design expression and secretion vectors.
XX
SQ   Sequence   83 AA;

Query Match   20.9%;   Score 456; DB 21; Length 84;
Best Local Similarity 98.8%;   Pred. No. 3.5e-35;
Matches   82;   Conservative   0; Mismatches   0; Indels   1; Gaps   1;

Qy   1 MAFVLGAFVALLWSLVWSLAIATPLPPTSAHGNVAEGETKPDPDVTERCSDGWSFDATT 60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 MAPVIGAPVAIGLWSLCWSLAIATPLPPTSAHGNVAEGETKPDPDVTFRCSDGWSFDATT 60

Qy   61 LDPNGTMLFFKGEFVWKSHKWDR 83
         |||||||||||||||||||||||
Db   61 LDPNGTMLFFWGEXVWFSHKWDP 83

RESULT 3
ABP31577
ID   ABP31577 standard; Protein; 87 AA.
XX
AC   ABP31577;
XX
DT   09-JUL-2002 (first entry)
XX
DE   Human glycoprotein-like ORF550 protein, SEQ ID NO:1100.
XX
KW   Human; ORF; open reading frame; ORFX; drug screening; diagnosis;
KW   disease monitoring; cytokine; cell proliferation; cell differentiation;
KW   immune modulation; haematopoiesis regulation; tissue growth;
KW   angiogenesis; activin; inhibin; chemotactic; chemokinetic; haemostatic;
KW   thrombolytic; tumour inhibition; bodily characteristic; fertility;
KW   behaviour; cancer; proliferative disorder; neurological disorder;
KW   cardiovascular disease; immune system disorder; organ transplantation;
KW   tissue growth disorder; tissue regeneration disorder; diabetes mellitus;
KW   hypothyroidism; cholesterol ester storage disease; infection; vulnerary;
KW   vasotropic; antipsoriatic; antidiabetic; cytostatic; nootropic;
KW   neuroprotective; antiatherosclerotic; anticoagulant; thrombolytic;
KW   cardiant; hypotensive; antithyroid; antiinflammatory; immunomodulator;
KW   dermatological; analgesic; virucide; antibacterial; fungicide.
XX
OS   Homo sapiens.